Pespiration Internal Enternal Inspiration ) respiration Enfiration air enters body Through noc & mouth a morned & moistined in noc, by Sungo - Lohes 7-3, b-2. Nachea - bronchi - bronchide - anidi hunge- little air sacs. Enternal respiration.

- anesti surrounded by blood ressels. Internal respiration - in times of the body

Zonsilse- removed when diseased. - enlarged, she throat. - hard to breathe. adenide - back of more. - hard of hearing, - dull Juli experitor of lungs - vital capacity complemental air - fill to encess - 1 2gt. (antra) supplemental six - deplated out. 3 - are intel capacity. air left - residual air-can't be breathed out. Vice - weal chords intrate. - courties of month, nose, lesynd, broken, sinuses etc. affect vince. tonne - lined with mucous membrane. - tighter - the higher note. Sand - Witch - typhiness + preprenticy & wilsten landness - and. of air freed out. - months at bottom of month. Insel septe lined self muchos menterne air wormed + mostered in this sipta. Olfsetry cells determine smell sinse - nerne fibre - large norme Olfritry nime,

Respiration. Respiration - supplies or to tissues. - removes Cor & water - moretion. Is-interchange of gases between the blood + the today cells - internal risk .
- interchange between blood of lungs. - internal risk. Autritini, archatry, respiratory systems closely related. Vital combustion - depends on fuel supplied My prodstulles. - requires onygen supplied from the lungs Cells get materials from blood + hypoth.

Beart - important part of circulation. Rishiration depends on 1) Meathern depends on rate of internal respiration and internal breathing, depends on the admity of the cells (milation of ful + liberation of energy) V asculation. mehrmism of Respiration. Jungs - strongy connectine tessues full of air sacs, containing espillaries. - blind passes through, hous its Cor + gains or lay dellusin. Cor- blook to hypoth to tessues or brithed in depends on Cor produced.

Encess and neutralized by alkaline substances from food normal afterlinity maintained by activity Blood through Kissues becomes andry.

Brithing regulated by respiratory centre in medalls.

brithing increases when blood too acid.

decreases " " alkalino. of historys. altitude - volume of Or diminishes as altitude ingreases. anemia - shoting of Or - causes neusia, depression, apathy muscular meatiness. - high altitudes - bruthing quicker, - abouting Do to incress of rid Mord cryundles increased. also in hemoglotim. Structure of lungs.

Dracher - 1 thito, lined with cartilege.

- lined-ciliated mucous membrane. Sunge - composed of suce, end in air lubes or bronchioles. - mereles divided into almoli. - grayer of bromobiles from a lambus - kroschi alreali - elastie tissue - cop nery thin .

I tetreen blood in these + air in aludi. Chest carrity enclosed by spinol column, rits, sternum, diaphragm - collapse prevented by lungs filling, + being enclosed in thracic country membranas lissue Dry pleuring - surfaces of pleura become sough Empyma-fluid formed between bleure. Orneumo-thran- one lung collepsed. Greathing, - mechanical Mhisis. Inspiration - sits sise - thancic carnty increased. Relaxation - pressure indused. Tidal air - air enchanged in treath. Vital coperity - deepest inspiration Pate - 12-20 times a minute in inertion rate & volume increase in energiese tidal air incressed Infulous It breathing arise from the suburitory system in the medulla maintains uniform alkality of the blook. A mintains uniform breathing sythm. Vyns nims.

Extection of lungs by upper ar passages warming & saturating + removing particles from the sis. Constring - trus rispiratory prosser of writation - sunsations arise - go to name alls which make the respectory muscles with. Incomy, - some as cough encept prossent to now is funt oir goes through nose o mouth Arcingh - contraction of disphragm + closing, of glotter. Caused by primere on retained food in stomach Sinus - carries in fine of head + check 1) (Intal sinus 1) marellary sinus. - connected with noe by minute passage. Sesarlers - passages cloud my swelling & they retain pus Emsed by carcless treatment of colds. Siliens - a dispose consid by dust. Inflammations of respiratory tract rise from I causes. 1) tracterial infections. 2) itritation from physical of Colls - injections disease. bacteria in month + repper respiratory passage. 305

Influenza - pandemic attacks. 1) respiratory system is digestine truct. s) from & nervous system had mentilation from air 1) high temperature 1) pressive humidity. 3) lack of our movement. Obstructions in track. 1) thickening of nasal mucous membranes. 1) deflected massel septime -granth from mucas membra 4) Spurs - intend from septim into nasal passage Causes - usual vince modephibility to colds. sinus injetims Insils - behind noe or photyma ore 1) adenside 2) facial tonsils. Issils - protect + destroy incoming laderia - should be removed when. 1) sae thronts. s) ear injections 4) heart disease & sheumatism Interculors - overtiredness - unpreturized milk

Imporities filtered by the tuffe To each trift - me artery + me num malpigean capsule surrounds the tull (glonisules) + it simes as a filter of west products. Iron these defente sends impunties to consoluted tuhules - which mind in +out + eventually make up the writers - 4,000,000 coffendes in kidney - rogal. a day sisseted. - high Alord pressure incresses amt, wrine discharged. - Alord in wine means breaking down of Judney, tissue of malligian body. while wine flases through the tuhules , blood aboths miniral substances in the usine. - to many proteins in body then fillered out indication of broken down tissue

Excretion accessing agains liner - prepares certain mestes din - (oz, water, (urea). Organs - hidneys - bean - shaped glands - humber region, wither side of column - writers lead to bladder - writher away Petris - empty tubes of convoluted tutules. Intrales - rise in renal trifts (glomeruli) - when distracted by smois + diffusion - filtrate maste. Prancys - activity controlled by amount of blood flowing through them - wine produced - 24 bl. 3-4 pts - water increted by lungs + shin - 29to Amountar incruse - moresses with of budneys -- moreases hear & cooling, of body. - Moduces sugar in whome. metimes proteins. - cooling, moderly bad for kidneys.

causes conjection & inflammation. Jord - Too much bad. - too much protein injurious. Morbel - tor much causes detritation. auto-tonication - deterioration from toning. - heart artises, hidneys intake - from intestinal tract, alcohol Anetria from teeth Housels

Ridneys - Meeted by. 1) encess of moth. 2) inflammation - due to chilling. 3) poisons abstitut. - from substances ingested. Shin Epidermis - dermis forms heratin - prissure & Wriction thickens it. Dermis - loose connectine tissue sends not popular into Midernies where of tissue helm. - contains pt. - nome endings in popular & spiderinis 2 glands - schacins (out) - mostins (ochum) - surete and around hair pollicles inflammation - produces toils & puruncles. (carhundes) Smeat glands - duch. temp. o mirise - coiled tulules ending in duct - morninded by capillaries.
- hairs attached to muscle fibres. Junatinis of sun. 1) Elidermia - protects - Interio d'injury. - protection of pigment. 2) Regulates body heat.
- perpiration & vasometer nerves. 3) Organ of sensation. - neme endings.



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